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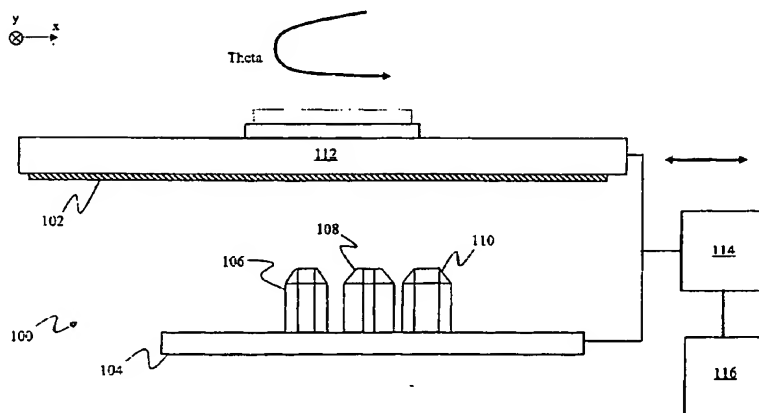
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Fremont, CA 94538 (US). YU, Chaw-Chi [US/US];  
20625 Reid Lane, Saratoga, CA 95070 (US).
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- (71) Applicant (*for all designated States except US*): ACM  
RESEARCH, INC. [US/US]; 46520 Fremont Boulevard,  
Suite 610, Fremont, CA 94538 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): WANG, Hui  
[US/US]; 340 Jacaranda Drive, Fremont, CA 94539  
(US). AFNAN, Muhammed [US/US]; 1048 Vuelta  
Olives, Fremont, CA 94539 (US). YIH, Peihaur [—/US];  
37171 Sycamore Street, #824, Newark, CA 94560 (US).  
KOEHLER, Damon, L. [US/US]; 39601 Fremont Blvd.,
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(54) Title: ADAPTIVE ELECTROPOLISHING USING THICKNESS MEASUREMENTS AND REMOVAL OF BARRIER AND SACRIFICIAL LAYERS



(57) Abstract: A metal layer formed on a semiconductor wafer is adaptively electropolished. A portion of the metal layer is electropolished, where portions of the metal layer are electropolished separately. Before electropolishing the portion, a thickness measurement of the portion of the metal layer to be electropolished is determined. The amount that the portion is to be electropolished is adjusted based on the thickness measurement. A metal layer formed on a semiconductor wafer is polished, where the metal layer is formed on a barrier layer, which is formed on a dielectric layer having a recessed area and a non-recessed area, and where the metal layer covers the recessed area and the non-recessed areas of the dielectric layer. The metal layer is polished to remove the metal layer covering the non-recessed area. The metal layer in the recessed area is polished to a height below the non-recessed area, where the height is equal to or greater than a thickness of the barrier layer.